

## Message Text

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ACTION OES-06

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DEPT PLEASE PASS NASA/INTERNATIONAL OFFICE

E.O. 11652: N/A  
TAGS: ETEL TGEN TECH ENRG IR  
SUBJ: DOMESTIC TELECOMMUNICATIONS SATELLITE PROGRAM  
FOR IRAN

1. BEGIN SUMMARY: NIRT SEMINAR ON IRANIAN TELECOMMUNICATIONS  
SATELLITE CONCLUDED DEC 15 IN TEHRAN. INTERESTED FIRMS  
FROM US, EUROPE, INDIA, JAPAN AND PERU PARTICIPATED. TWELVE  
TO FOURTEEN GHZ FREQUENCY BAND BEING PLANNED. SATELLITE HOPE-  
FULLY WILL BE OPERATIONAL IN ABOUT 5-6 YEARS; COST ESTIMATES  
VARY FROM \$200-500 MILLION FOR SYSTEM. END SUMMARY.

2. APPROXIMATELY 120 ATTEUDEES WERE PRESENT AT SEMINAR WITH  
REPS MAINLY AS FOLLOWS:

A. USA: FAIRCHILD, COLLINS, FORD AEROSPACE AND COMMUNICATIONS  
CORP, GE WESTINGHOUSE, HUGHES AIRCRAFT, RCA, TRW.

B. EUROPEAN SPACE AGENCY (ESA)

∴ INDIA (ISRO)

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D. FRANCE (CNES)

E. FRG (DFVLR), SIEMENS

F. I.T.U.

G. JAPAN (NASADA), TOSHIBA

#. PERU

I. IRAN: NIRT, PTT, PBO, MINISTRY OF SCIENCE AND  
HIGHER EDUCATION, SUPREME COMMAND, S-J6, ARYA MEHR UNIVERSITY.

3. SEMINAR HAD BOTH PANEL DISCUSSIONS, WHICH CON-  
SISTED PRINCIPALLY OF VARIOUS COMPANY REPS GIVING THEIR VIEWS  
AND RECOMMENDATIONS (IN RESPONSE TO QUESTIONS PUT TO THEM  
BY IRANIANS), PLUS TECHNICAL PAPERS. SELECTION OF IRANIAN  
PAPERS WHICH APPEARED TO BE MOST SIGNIFICANT TO EMB SCIENCE  
ATTACHE ARE AS FOLLOWS:

A. "DEFINITION OF THE IRANIAN DOMESTIC SATELLITE  
SYSTEM", BY R HAGOPIAN, NATIONAL IRANIAN RADIO  
TELEVISION, NIRT.

B. "THE APPLICABILITY OF SOLAR POWER IN THE IRANIAN  
COMMUNICATION NETWORK", BY MATERIALS AND ENERGY  
RESEARCH CENTER, ARYA MEHR UNIV.

C. "FEASIBILITY STUDY AND COST ANALYSIS FOR BROADER  
TELECOMMUNICATIONS SERVICES IN IRAN" BY R HAGOPIAN, NIRT.

D. "EARTH TERMINAL RECEIVER FOR SATELLITE TELEVISION  
BROADCASTS", T IVAYYER, IRAN.  
(EMB SCIOFF HAS AVAILABLE COPIES OF NEARLY ALL PAPERS OR  
ABSTRACTS FROM SEMINAR).

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4. THIS DOMESTIC TELECOMMUNICATIONS SATELLITE WILL COMPLEMENT  
AND EXPAND (BY ABOUT A FACTOR OF 3) IRAN'S EXISTING MICROWAVE  
SYSTEM. THE FOCUS APPEARS TO BE IN GETTING EDUCATIONAL TY TRAN-  
SMISSIONS, AS WELL AS TELEPHONIC SERVICES IN RURAL VILLAGE AREAS,  
THROUGHOUT IRAN --REACHING AT LEAST 70 PERCENT OF THE POPULATION.  
IN HIS PAPER, HAGOPIAN FAVORED THE USE OF A THOR DELTA 3914  
FOR LAUNCHING THE APPLICATION. ESTIMATE IS THAT SATELLITE,  
ITSELF, WILL WEIGH ABOUT 4,000 POUNDS.

5. DURING THE COMING 3 MONTHS NIRT, PTT AND PBO WILL  
CONTINUE EVALUATION OF INPUT RECEIVED FROM SEMINAR. THIS  
WILL INCLUDE A SYSTEMS AND REQUIREMENTS OPTIMIZATION  
STUDY BEING DONE BY COMPUTERS. EMB IMPRESSION IS THAT  
GOI IS GOING ABOUT THEIR BUSINESS QUITE CAREFULLY, YET  
BEING AWARE THAT THEIR SCHEDULE IS TIGHT TO ACHIEVE THEIR  
TIMING GOALS. IT IS ANTICIPATED THAT BY ABOUT THE END  
OF MARCH 1977, GOI WILL PUT OUT TENDERS FOR BIDS ON THE  
NEW DOMESTIC TELECOMMUNICATIONS SATELLITE SYSTEM.

6. NOTE: SINCE COMSAT CORP. WAS NOT REPRESENTED AT THIS SEMINAR, IN TELEPHONE CONVERSATION DEC 14 FROM COMSAT OFFICIAL NIESEN TO EMB SCIATT, HE ASKED TO HAVE AVAILABLE INFORMATION ON THIS SEMINAR. THEREFORE, IF DEPT/OES THINKS IT APPROPRIATE, PLEASE FORWARD SUBSTANCE THIS REPORT TO: DR MATT NEILSEN OR MR ROMAN ULANS, COMSAT CORP., 950 L'ENFANT PLAZA, WASHINGTON DC, TELEPHONE: 554-6000.  
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